

INTERNATIONAL SEARCH REPORT

PCT/NL 03/00013

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01G9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L H01G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/163829 A1 (MANDELL AARON ET AL) 7 November 2002 (2002-11-07) figures 1-3	1-3, 5, 10-12, 15, 17, 26, 28
X	US 4 435 742 A (HETRICK ROBERT E) 6 March 1984 (1984-03-06) figures 7-13	1, 24, 27, 29-31
X	US 3 273 027 A (JOOST BATELAAN ET AL) 13 September 1966 (1966-09-13) column 5, line 7 - line 27; figure 6 -/-	1-4, 7, 10, 19-21

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

8 October 2003

Date of mailing of the international search report

15/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Königstein, C

INTERNATIONAL SEARCH REPORT

PCT/NL 03/00013

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NILSSON D ET AL: "BI-STABLE AND DYNAMIC CURRENT MODULATION IN ELECTROCHEMICAL ORGANIC TRANSISTORS" ADVANCED MATERIALS, VCH VERLAGSGESELLSCHAFT, WEINHEIM, DE, vol. 14, no. 1, 4 January 2002 (2002-01-04), pages 51-54, XP001129569 ISSN: 0935-9648 the whole document	1,4,6,7, 13,14,20
X	POPKIROV G ST: "CAPACITANCE MEASUREMENT OF SEMICONDUCTOR ELECTRODES BY MEANS OF THEHP-4274A LCR METER" REVIEW OF SCIENTIFIC INSTRUMENTS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 61, no. 1, PART 1, 1990, pages 200-202, XP000101234 ISSN: 0034-6748 the whole document	32
A		1,13,14
X	RANI V SANTHANAM K S V: "Polycarbazole-based electrochemical transistor" JOURNAL OF SOLID STATE ELECTROCHEMISTRY, SPRINGER, BERLIN,, DE, vol. 2, no. 2, 1998, pages 99-101, XP002954506 ISSN: 1432-8488 figure 1	1-3
X	KRUEGER M ET AL: "ELECTROCHEMICAL CARBON NANOTUBE FIELD-EFFECT TRANSISTOR" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 78, no. 9, 26 February 2001 (2001-02-26), pages 1291-1293, XP001020605 ISSN: 0003-6951 the whole document	1
X	US 1 769 837 A (HULL ALBERT W) 1 July 1930 (1930-07-01) the whole document	1
A	US 5 946 185 A (FULTON JAMES THOMAS) 31 August 1999 (1999-08-31) the whole document	1,23

INTERNATIONAL SEARCH REPORT

PCT/NL 03/00013

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 33
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(vi) PCT - Program for computers
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

PCT/NL 03/00013

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2002163829	A1	07-11-2002	WO	02091494 A1	14-11-2002
US 4435742	A	06-03-1984	US	4332003 A	25-05-1982
US 3273027	A	13-09-1966	GB	996412 A	30-06-1965
US 1769837	A	01-07-1930	FR	629640 A	14-11-1927
US 5946185	A	31-08-1999	NONE		